**Algebra Readiness**

Wednesday March 26

Learning Target- We will solve equations using the distributive property

Agenda

1. Two-Step Equation Review
2. Solve Equations using the distributive property practice together
3. Practice steps with a partner using cards

Combine like terms in solving an equation

1.) 2y + 3y -6 = 9

-combine y’s, then rewrite the equation

5y -6 = 9

Distributive Property

5 (c-1) = 50

1. Distribute the number outside the parentheses

& write the equation again

5c – 5 = 50

1. Addition or subtraction

5c-5 = 50

Write the new equation

1. Multiplication or division
2. combine like terms, then solve

8d – 4 – 6d = 22

2.) 3 (6 –x) = 27

3.) 2 + 3(x + 1) = 17

1. 15 = -5 (x + 7)

**Algebra Readiness**

**Thursday March 27**

**Learning Target- I will combine like terms when I’m solving equations using the distributive property**

**Agenda**

1. **Warm-Up-**
2. **Review combining like terms**

**& distributive property**

1. **Independent work**

**Review Combining Like Terms**

**4x + 12 + 2x – 2 = 22**

1. **Combine x’s, combine numbers on left side**

**Write new equation**

1. **2 step equation**

**1st- addition or subtraction**

**2nd- multiplication or division**

Distributive Property

2(p + 3) + 2 (p – 4) = 22

1st- distributive property

2nd- combine like terms

3rd- Two step equation

1. Addition or subtraction
2. Multiplication or division

6(n-2) = 4(n + 1)

1st distributive property

2nd-combine like terms – put the unknown on one side

3rd- Two step equation

-addition or subtraction

-multiplication or division

On Your Own

1. 4 (d -1) – 5(d + 2) = -3

1. 9(w + 9) + 8(w – 2) = 116
2. 4(2x + 3) = 6( 2-x)

1. You need 70 inches of ribbon to wrap a ribbon around the box shown and make a bow. The bow takes 32 inches or ribbon. The width of the box is 14 inches. What is the height of the box?

(You are wrapping the ribbon around four sides, two height sides are the same and two width sides are the same: 2(x+14) )

Remember that we use the Distance Formula, and it’s two variations, to solve for distance, rate or time.

**Distance = Rate X Time**

**Rate = Distance/Time**

**Time = Distance/Rate**

**Bob took a 7 hour bicycle trip. In all, he traveled 112 miles. What was his average rate of speed in miles per hour?**

**Sally traveled from Green Bay to Chicago on Saturday. The trip took 3.5 hours and she traveled at an average rate of 62 mph. How many miles did Sally travel?**

**Mary and Jim decided to travel to Europe one summer.  The jet flew at an average rate of 550 mph and covered 3437.5 miles.  How long did the flight take?**

**A train left New York at 10:00 a.m. and arrived in Washington D.C. at 1:00 p.m..  If the distance between the 2 cities is 225 miles, what was the average rate of speed of the train?**     figure out how long the train traveled first

**A man drove 45 mph for 3 hours, and then 60 mph for another 2.5 hours. What was the total distance the man traveled?**